

10498-00067.ST25
SEQUENCE LISTING

<110> Ayad, Nagi

Kirschner, Marc

<120> NOVEL CELL CYCLE GENES REQUIRED FOR MITOTIC ENTRY

<130> 10498-00067

<150> 60/459,788

<151> 2003-04-02

<160> 7

<170> PatentIn version 3.1

<210> 1

<211> 266

<212> PRT

<213> Mus musculus

<400> 1

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Arg Asn Lys Gln Val Ala Arg Val Ala Asp Pro Arg Ser Pro Ser Ala
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Gly Ile Gln Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln Pro Ser
35 40 45

Leu Pro Ala Glu Gln Leu Asn Gly Leu Lys Gln Ala Gln Asp Pro Asp
50 55 60

10498-00067.ST25

Pro Arg Ser Pro Thr Leu Gly Ile Ala Arg Thr Pro Met Lys Ile Ser
65 70 75 80

Gly Pro Asp Pro Gln Cys Ser Leu Val Lys Glu Leu Ser Glu Val Leu
85 90 95

Glu Thr Glu Ala Ser Glu Ser Ile Ser Ser Pro Glu Leu Ala Leu Pro
100 105 110

Arg Glu Thr Pro Leu Phe Tyr Asp Leu Asp Leu Ser Ser Asp Pro Gln
115 120 125

Leu Ser Pro Glu Asp Gln Leu Leu Pro Trp Ser Gln Ala Glu Leu Asp
130 135 140

Pro Lys Gln Val Phe Thr Lys Glu Glu Ala Lys Gln Ser Ala Glu Thr
145 150 155 160

Ile Ala Ala Ser Gln Asn Ser Asp Lys Pro Ser Arg Asp Pro Glu Thr
165 170 175

Pro Gln Ser Ser Gly Ser Lys Arg Ser Arg Arg Lys Ala Asn Ser Lys
180 185 190

Val Leu Gly Arg Ser Pro Leu Thr Ile Leu Gln Asp Asp Asn Ser Pro
195 200 205

Gly Thr Leu Thr Leu Arg Gln Gly Lys Arg Pro Ser Ala Leu Ser Glu
210 215 220

Asn Val Lys Asp Leu Lys Glu Gly Val Val Leu Gly Thr Gly Arg Phe
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Leu Lys Ala Gly Gly Gly Ala Arg Glu Pro Asn Gln Asp His Asp Lys
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Glu Asn Gln His Phe Ala Leu Leu Glu Ser
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<210> 2

<211> 268

<212> PRT

<213> Homo sapiens

<400> 2

Met Gly Ser Ala Lys Ser Val Pro Val Thr Pro Ala Arg Pro Pro Pro
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His Asn Lys His Leu Ala Arg Val Ala Asp Pro Arg Ser Pro Ser Ala
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Gly Ile Leu Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln Pro Gly
 35 40 45

Leu Pro Ala Gly Glu Gln Leu Glu Gly Leu Lys His Ala Gln Asp Ser
 50 55 60

Asp Pro Arg Ser Pro Thr Leu Gly Ile Ala Arg Thr Pro Met Lys Thr
 65 70 75 80

Ser Ser Gly Asp Pro Pro Ser Pro Leu Val Lys Gln Leu Ser Glu Val
 85 90 95

Phe Glu Thr Glu Asp Ser Lys Ser Asn Leu Pro Pro Glu Pro Val Leu
 100 105 110

Pro Pro Glu Ala Pro Leu Ser Ser Glu Leu Asp Leu Pro Leu Gly Thr
 115 120 125

Gln Leu Ser Val Glu Glu Gln Met Pro Pro Trp Asn Gln Thr Glu Phe
 130 135 140

Pro Ser Lys Gln Val Phe Ser Lys Glu Glu Ala Arg Gln Pro Thr Glu
 145 150 155 160

Thr Pro Val Ala Ser Gln Ser Ser Asp Lys Pro Ser Arg Asp Pro Glu
 165 170 175

Thr Pro Arg Ser Ser Gly Ser Met Arg Asn Arg Trp Lys Pro Asn Ser
 180 185 190

Ser Lys Val Leu Gly Arg Ser Pro Leu Thr Ile Leu Gln Asp Asp Asn
 195 200 205

Ser Pro Gly Thr Leu Thr Leu Arg Gln Gly Lys Arg Pro Ser Pro Leu

210

215

220

Ser Glu Asn Val Ser Glu Leu Lys Glu Gly Ala Ile Leu Gly Thr Gly
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Arg Leu Leu Lys Thr Gly Gly Arg Ala Trp Glu Gln Gly Gln Asp His
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Asp Lys Glu Asn Gln His Phe Pro Leu Val Glu Ser
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<212> PRT

<213> *Xenopus laevis*

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Met Gly Ser Ala Glu Ser Lys Ala Gln Val Thr Pro Ser Arg Pro Leu
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Arg Asn His Leu Leu Ser Arg Val Asn Asp Pro Arg Ser Pro Thr Ser
 20 25 30

Gly Ile Pro Arg Thr Pro Ile Glu Val Gly Glu Ser Pro Arg Asn Thr
 35 40 45

Pro Gln Thr Val Lys Glu Glu Glu Glu Ile Pro Asp Ser Pro Glu
 50 55 60

Ile Phe Asp Pro Arg Ser Pro Thr Asn Gly Ile Thr Arg Thr Pro Leu
 65 70 75 80

Arg Pro Pro Ile His Ala Val Leu Asn Asn Leu Ala Lys Gln Leu Ser
 85 90 95

Glu Val Phe Val Ala Glu Asp Ser Ser Thr Glu Gly Gly Pro Leu Gly
 100 105 110

Phe Thr Gly Pro Glu Ala Thr Asn Leu Glu Arg Gln Val Val Glu Ser
 115 120 125

10498-00067.ST25

Gln Thr Ala Pro Pro Ala Gly Glu His Val Asn Asp His Glu Val Glu
 130 135 140

Pro Ser Val Glu Lys Ala Glu Thr Gln Ile Asp Leu Glu Val Cys Pro
 145 150 155 160

Gly Val Glu Lys Val Lys Ser Pro Ile Ala Glu Met Leu Glu Thr Leu
 165 170 175

Asn Asp Gln Glu Glu Ser Pro Ile Ala Glu Thr Leu Glu Thr Met Asn
 180 185 190

Asp Gln Glu Glu Ser Pro Ile Ala Glu Thr Met Asn Asp Gln Glu Glu
 195 200 205

Ser Pro Ile Ala Glu Thr Leu Glu Asn Leu Asn Asp Gln Ala Glu Ser
 210 215 220

Pro Ile Ala Glu Thr Leu Glu Asn Leu Asn Asp Gln Ala Glu Ser Pro
 225 230 235 240

Ile Ala Glu Met Leu Asp Thr Leu Asn Asp Gln Glu Pro Val Ala Val
 245 250 255

Ala Gln Ser Val Val Ser Thr Glu Ser Thr Gln Ala Thr Gly Gln Gln
 260 265 270

Gln Lys Thr Arg Gly Lys Ser Pro Arg Ser Ser Gly Val Lys Asn Val
 275 280 285

Arg Gln Arg Pro Arg Lys Ala Leu Leu Ser Ser Ser Ser Gly Arg Ser
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Pro Leu Arg Ile Leu Gln Glu Asp Asn Ser Pro Asn Thr Asn Thr Gln
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His Arg Gln Ala Lys Lys Leu Ser Phe Gln Ser Glu Pro Ala Leu Pro
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His Arg Ala Leu Lys Ile Ser His Pro Asn Trp Glu Ser Ser Leu Asn
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Lys Glu Asn Ala Glu Tyr Gly His Ser Asn Ser
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<211> 1426

<212> DNA

<213> Mus musculus

<400> 4

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<211> 1139

<212> DNA

<213> Homo sapiens

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<213> Xenopus laevis

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<223> wherein n is g, a, t or c

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<222> (733)..(733)

<223> wherein n is g, a, t or c

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<211> 17

<212> PRT

10498-00067.ST25

<213> Artificial Sequence

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<223> synthetic peptide used as internal standard

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<221> MOD_RES

<222> (8) .. (8)

<223> PHOSPHORYLATION

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<221> MISC_FEATURE

<223> 13Cx6 labeled

<400> 7

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